WHAT IS CLAIMED IS:

1. An apparatus for monitoring a video signal, comprising:

means for inputting a Y/color difference component signal (Y, Pr, Pb);

means for setting upper limit values S and lower limit values T corresponding to all components of an RGB component signal (R, G, B);

means for determination as to the existence of a gamut error, said determination means making determination as to whether at least one of

a first condition Y > S + α × Pb + β × Pr (where each of α and β is a predetermined coefficient) indicating that at least one of R, G and B components is larger than the upper limit value S and

a second condition Y < T + γ × Pb + δ × Pr (where each of γ and δ is a predetermined coefficient) indicating that at least one of the R, G and B components is smaller than the lower limit value T

is satisfied; and

means for making a gamut error state visually recognizable when the first condition or the second condition is satisfied.

2. An apparatus for monitoring a video signal, comprising means for detecting a gamut error in an R component, means for detecting a gamut error in a G component, and means for detecting a gamut error in a B component, said means for detecting a gamut error in the R component including:

means for generating a first condition Y > S - $a \times Pr$ (where a is a predetermined coefficient) and a second condition Y < T - $a \times Pr$ from a Pr component (first color difference component) of a Y/color difference component signal and an upper limit value S and a lower limit value T of the RGB component signal; and

means for making a gamut error state visually recognizable with respect to the R component when the first condition or the second condition is satisfied,

said means for detecting a gamut error in the G component including:

means for generating a third condition Y > S + $b \times Pb + c \times Pr$ (where each of b and c is a predetermined coefficient) and a fourth condition Y < T + $b \times Pb + c \times Pr$ from the Pr component and a Pb component (second color difference component) of the Y/color difference component signal and the upper limit value S and the lower limit value T of the RGB component signal; and

means for making a gamut error state visually recognizable with respect to the G component when the third condition or the fourth condition is satisfied,

said means for detecting a gamut error in the B component including:

means for generating a fifth condition Y > S - d \times Pr (where d is a predetermined coefficient) and a sixth condition Y < T - d \times Pr from the Pb component of the

Y/color difference component signal and the upper limit value S and the lower limit value T of the RGB component signal; and

means for making a gamut error state visually recognizable with respect to the B component when the fifth condition or the sixth condition is satisfied.